

1881

PROCEEDINGS
AT THE
ANNUAL MEETING
OF THE
Natural History Society
OF MONTREAL,
FOR THE YEAR ENDING MAY, 1881.

WITH
A LIST OF THE OFFICERS, LIFE, HONORARY AND CORRESPONDING
MEMBERS OF THE SOCIETY.

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MONTREAL:
MITCHELL & WILSON, PRINTERS, 341½ NOTRE DAME STREET.
1881.

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NATURAL HISTORY SOCIETY OF MONTREAL.

BY-LAWS MADE SINCE 1859.

OF MEMBERS.

January 29th, 1866.

"That ordinary members not resident in Montreal shall be required to pay an annual subscription of three dollars, and shall be entitled to receive the *Canadian Naturalist* for each year; the said contribution to be paid in advance, and that such members be designated "Non-Resident Ordinary Members."

January 28th, 1867.

"That the annual subscription of ordinary members be raised from four dollars to five, and that of life members from forty dollars to fifty."

March 25th, 1867.

"That the by-laws relating to membership be amended, and that, in future, Ladies shall be eligible for election as Associates of the Society. Such Associates are to be elected in the same manner as ordinary members, and to enjoy all the privileges of ordinary members except that of voting at meetings of the Society. Such Associates shall pay an annual subscription of two dollars."

May 18th, 1881.

"That the annual subscription to the Society be reduced to four dollars, including the subscription to the *Canadian Naturalist*, and to three dollars without the subscription to that paper."

OF OFFICERS AND OF THE COUNCIL.

June 30th, 1862.

"That three additional Vice-Presidents be elected, not to be numbered 1st, 2nd, 3rd and so on, but that all be enumerated in order as elected.

"Also that four additional members be added to the Council, so as to make altogether nine members."

OF COMMITTEES.

April 19th, 1867.

"The Council of the Society at its October meeting in each year shall nominate a Committee, not exceeding five members, to be appointed by the Society at its October meeting. Such Committee shall be named the 'Lecture Committee,' and is to mature all the arrangements for the annual course of Somerville Lectures and such other lectures as may be sanctioned by the Society, as well as the annual *Conversazione*, and to report at each meeting of the Society throughout the winter. The President and the Recording Secretary shall be *ex officio* members of the Lecture Committee.

OF MEETINGS.

September 24th, 1866.

"That By-Law No. 3, Chapter 3, be amended, and that the meetings of the Council be held on the *Tuesday* before the monthly meetings instead of the *Thursday*."

PROCEEDINGS OF ANNUAL MEETING,

MAY 18TH, 1881.

The Annual Meeting for the Session 1880-81 was held on Wednesday evening, May 18th, 1881. The President, Principal Dawson, occupied the chair. The minutes of the last annual meeting were read and sustained.

Having presented Major Latour with the Society's Bronze Medal for his many important services to the Society, the President delivered his

ANNUAL ADDRESS,

in the course of which he said that the year just closed had been distinguished more for the improvements made in the Museum of the Society and in its financial position than for extent of scientific work, though the latter had not been inconsiderable. The Society had sustained a great loss by the removal to Ottawa of several very efficient members connected with the Geological Survey and it was the more important on this account that it should endeavour to increase its membership and more particularly to attach to itself young men who take an interest in science. He referred to the discoveries resulting from the labors of Mr. Ellis, Mr. Whiteaves, Mr. Foord and Mr. Weston in the upper part of Baie des Chaleurs. The remarkable association in that locality, within a very limited space, of Upper Silurian, Devonian and Lower Carboniferous rocks, was in itself of much interest, and the remarkable group of Upper Devonian fishes worked out by Mr. Whiteaves, and described by him at one of their meetings, completed a link of connection between the fossils of this country and of Great Britain. The plant remains of this locality also, connecting as they did the Gaspé sandstones with the Perry beds and with the Catskill series of New York, were of the highest interest. A communication received latter in the session, from

Mr. R. Chalmers, on the Postpliocene of the same region, has further added to our knowledge of this interesting region, on the confines of New Brunswick and Quebec. In connection with more Western regions, Dr. Selwyn, of the Geological Survey, has presented a paper on discoveries of fossil plants in the Lignite tertiary of Roches Percées, in the Western Territories. Another interesting geological subject was that of the structure of the Peace River District, as explained by Dr. G. M. Dawson, and more especially the recognition in that region of the Cretaceous series represented farther south, holding not only valuable beds of coal, but also fossil plants, seeming to connect some of the distinct floras recognised by American palæontologists to the southward. Having referred to the papers of Dr. Osler on Fresh Water Polyzoa, Mr. Donald on Baking Powders and Dr. Edwards on the qualities of certain Well-water, he said that much interest had been added to the meetings by the specimens submitted by their zealous curator, Mr. Muir, to whom they were also indebted for an illustration of a new illuminating lens for the microscope, which he himself had invented. A Committee had been working throughout the Session in arranging for the visit of the American Association for the Advancement of Science in 1882, and it was hoped that their efforts would be successful in bringing about a scientific meeting even more successful than that of 1857.

In the absence of Mr. Whiteaves, who has removed to Ottawa, Mr. G. L. Marler read the following

REPORT OF THE CHAIRMAN OF COUNCIL.

Your Council has to regret the loss; since last annual meeting, of several of your most active members by the removal to Ottawa of the Geological Survey. Your Society has, by such removal, been deprived of a number of very active members, and your Council takes this opportunity of tendering to these gentlemen its sincere thanks for the valuable services they have rendered the Society, and hopes that although removed from this city they will not cease to interest themselves in the Society's proceedings, but will continue their connection with it as corresponding members. To attain this end your Council recommends that these gentlemen be regularly elected corresponding members.

During the Session now about to close your museum has received large additions both by purchase and donation. The specimens in the museum have been cleaned and remounted. This has added very materially to their appearance and value. Improvements have also been made in the building, and though much has been done, much yet remains to be done to carry out the proposed alterations and to make the building and its contents more worthy the objects for which they exist.

The land adjoining the building on the north side having passed out of the hands of the Royal Institution, and building thereon having been commenced, certain necessary expenses will in consequence fall on your Society. Arrangements have been made between your Society and the proprietor of the land adjoining your building to the north, to cede to him the few inches of land lying between your property and his, and for the sale of that portion of the north wall which he intends using and the land on which it rests. This will oblige your Society to alter the slope of the roof, to close three of the windows and to make other alterations; this arrangement has been made under your resolution approved of by your Council.

The usual free course of Somerville lectures was duly given to the number of six. Your Council recommends that the thanks of your Society be tendered and conveyed to the gentlemen who so kindly and ably gave their valuable time and labour in the preparation and delivery of these lectures, which, as proved by the large attendance, were well received and much appreciated. The lectures were as follows:

1881.

Feby. 3rd. On Mind in Nature. By Principal Dawson.

Feby. 10th. On Magnetism and Electricity as aids to Intelligence. By Dr. Barnes, Point St. Charles.

Feby. 24th. On Sugar and its Varieties. By Dr. J. Baker Edwards.

March 3rd. On the Brain as a thinking organ. By Dr. Osler.

March 10th. On Tobacco and its effects on the Brain, the Nervous System and organs of Vision. By Dr. Buller.

March 13th. On the Whence and Whither of a Sunbeam. By H. Sugden Evans, Esq., F.C.S.

Your Council thinks that the change of Janitor has been beneficial to your Society, and hopes that it may not be long before your resources will enable your Society to employ permanently a regular Taxidermist. This is now almost a necessity as the Museum must henceforth attract more attention from the public owing to removal to Ottawa of the Geological Survey. Your Council has also to report that the annual field-day took place as usual, Lachute being the place selected for exploration; the day was everything that could be desired, and the Council would not only recommend that these field-days be kept up but would suggest that several be held through the summer.

As Treasurer of the Society, Mr. Marler presented the subjoined

TREASURER'S REPORT.

Your Treasurer has much pleasure in reporting that notwithstanding the large amount expended in improving the Museum and adding to it a large number of valuable and rare specimens, your Society has been able to reduce the mortgage on the property by paying a sum of \$250, leaving only a balance of \$250 to be paid, and there yet appears to your credit a balance of \$74. Like every other institution your Society is feeling the influence of the good times upon which our country is now entering. This is seen from the fact that members who were in arrears with their membership fees are now making payment of the same. Your Treasurer hopes therefore to be able to show at an early date the mortgage on the building paid off and a considerable balance on hand.

G. L. MARLER in account with THE NATURAL HISTORY SOCIETY OF MONTREAL,
from May 19th, 1880, to May 18th, 1881.

Dr.

Cr.

1880. May 18.		
To balance on hand	\$268.61	
1880-81.		
To Government grant	700.00	
" Donation from Mr. Hy. Joseph	10.90	
" Rent of Rooms	510.50	
" Entrance Fees to Museum	75.80	
" Members' Fees	409.63	
1881.		
By Printing and Advertising		\$135.12
" Additions and repairs		270.00
" Petty repairs, furnishing, etc.		43.96
" Salaries, gratuities and labour		457.00
" Gas and Water		147.25
" Editing <i>Naturalist</i>		50.00
" Excursion		30.00
" Plumbing and Gasfitting		15.16
" Hire of Piano, old account		10.00
" Directory, John Lovell		2.50
" Wood and Coal		129.82
" Insurance		35.00
" Repairs, (windows in upper part, &c.)		236.04
" Interest on debt		30.00
" Dawson Brothers' account		55.25
" Hy. Joseph, Esq. on account of debt		252.95
" Balance on hand		74.49
		<hr/>
		\$1974.54

Outstanding Debt on Mortgage, \$250.00.

Examined and found correct,

L. A. HUGUET-LATOURE, Auditor.

G. L. MARLER

Treasurer.

Mr Muir then presented the

REPORT OF THE CABINET KEEPER AND OF THE LIBRARY
COMMITTEE.

This report may be arranged under three divisions.

- 1.—Work on the Building.
- 2.—Work in the Museum.
- 3.—Report of Library Committee.

1st. Work on the Building.—On the left hand side of the entrance hall, a convenient store-room has been added, the ceiling of which gives a floor suitable for the accommodation of several specimens formerly in the Museum. The side entrance has been enclosed by a ceiling and partition, forming an inside porch, adding greatly to the comfort of the place in winter; and the head of the rear stairway leading up to the gallery has been floored over, increasing the accommodation offered by the gallery. Eleven windows have been put in on three sides of the gallery, giving increased cheerfulness and light; curtains have also been placed on the sky-lights. The large wall cases, twenty-seven in number, have been cleaned and painted, the shelves made narrower and better adapted to show the specimens thereon. The north and south sides of the gallery fronts have been raised, levelled and supported. The benches in the Lecture Hall have been repaired and strengthened by bolts.

2nd. Work in the Museum.—The whole of the birds, (1194 in all), the mammals, reptiles and fishes have been thoroughly dusted and cleaned; the birds have been re-mounted on handsome black walnut stands and painted blocks and the old soiled labels replaced by new ones; the fishes have been removed to the aquarium room, and the mammals re-arranged and put in the space thus left vacant. The whale, two of the alligators, and the large seal have been removed to the floor covering the store-room to the left of the main entrance hall, and the floor cases, formerly in the aquarium room, have been brought into the main room. Mr. John S. Brown having offered to stock and take charge of the aquaria for the Society, two aquaria loaned by Messrs. Wm. Muir and Jas. Ferrier, jr., together with those belonging to the Society, have been placed in position, and it is hoped that before the season is over a good representation in this department will be one of the attractions of the Museum. Mr.

Brown has also generously offered to pay the cost (\$6) of tables upon which to place the aquaria.

The following is the list of birds found to be so much injured that they were destroyed :

- Grass Finch *Poecetes gramineus*.
- Purple Martin, *Progne purpurea*.
- Red-shouldered Hawk, *Buteo lineatus*.
- * Lesser Red Poll, *Aegithus linaria*.
- Common Crow, *Corvus Americanus*.
- Yellow-throated Fly Catcher, *Vireo flavifrons*.
- Cat Bird, *Galeoscoptes Carolinensis*.
- Brown Thrush, *Harporhynchus rufus*.
- Red-eyed Fly Catcher, *Vireo olivaceus*.
- * Sparrow Hawk, *Tinnunculus sparverius*.
- * Shore Lark, *Eremophila cornuta*.
- Satin Grackle (female), *Kitta holosericea*.
- Great Northern Shrike (old male), *Collyrio Borealis*.
- “ “ “ (female) “ “
- Dipylloides magnifica*. New Guinea. J. F. W.

* These three have been replaced—and it is to be hoped that if any of our members can aid us in replacing the others they will do so.

The following are the additions to the Museum since June, 1880:

DONATIONS WITH NAMES OF DONORS.

- Apatite crystal, from Bob's Lake, Bedford, Ont. W. J. Morris, Esq.
- Moss, coated with mineral matter, from Colorado. Dr. Kennedy.
- Collection of English Plants. Col. G. E. Bulger, F.L.S., F.Z.S.
- A fine *Limulus polyphemus*. Miss E. Mathewson.
- Grey Squirrel, *Sciurus Carolinensis*. N. P. Leach, Esq.
- Albino Robin, *Turdus migratorius*. “
- Barred Owl, *Syrnium nebulosum*. J. A. Ogilvy, Esq.
- “ “ “ “ Jno. Nichols, Esq.
- Horned Grebe, *Podiceps cornutus*. “
- Great Blue Heron, *Ardea herodias*. Geo. Edwards, Esq., Thurso.
- Blue Jay (2), *Cyanura cristata*. G. L. Marler, Esq.
- A Remora or Sucking Fish. Geo. F. Phelps, Esq.
- A Bull-head Fish. “
- Head of a male Salmon. Robt. J. Fowler, Esq.
- A box made out of a plank from the Royal George, and a lock of Grace Darling's hair. Capt. Dutton, S. S. Sardinian.
- Wild Goose (2), *Bernicla leucopareia*. G. L. Marler, Esq.
- Brant Goose, *Bernicla Brenta*. “
- American White-footed Goose, *Anser albatius*. “
- Hare (mongrel). P. Keutzing.
- Prairie Wolf. Chas. Selwyn, Esq.
- 44 Specimens of *Lepidoptera*. P. Keutzing.

PURCHASES.

BIRDS.

- Belted Kingfisher, *Ceryle Alcyon*.
 Coot, *Fulica Americana*.
 Baltimore Oriole, *Icterus Baltimore*.
 Sparrow Hawk, *Tinnunculus sparverius*.
 Shore Lark, *Eremophila cornuta*.
 Loggerhead Shrike (male and female) *Collyris Ludovicianus*.
 Bonaparte Gull (Young), *Larus Bonapartii*.
 Black-bellied Plover (2), *Squatarola helvetica*.
 Loon, *Colymbus glacialis*.
 Spruce Partridge, *Tetrao Canadensis*.
 Hooded Merganser, *Lophodytes cucullatus*.
 Goshawk, *Astur atricapillus*.
 Goshawk (old) "
 Horned Grebe, *Podiceps cornutus*.
 Royal Tern, *Sterna Regia*.
 Brewers Duck, *Anas Breweri*.
 American Avoset, *Recurvirostra Americana*.
 Great Marbled Godwit, *Scolopax fedoa*.
 Red-necked Grebe (2), male and female, *Podiceps rubricollis*.
 " " young, "
 Ruddy Duck (2), male and female, *Fuligula rubida*.
 Greater Blackhead Duck (2), male and female, *Fuligula marila*.
 Snowy Owl (2), *Stryx Nyctea*.
 Herring Gull, *Larus argentatus*.
 Killdeer (young), *Egialitis vociferus*.
 Harris Woodpecker (2) male and female, *Picus Harrisii*. Vancouver's
 Island.
 Yellow Rail, *Rallus noveboracensis*, Labrador.
 Arctic Towhee (male), *Pipilo arctica*.
 Fork-tailed Fly Catcher, *Muscicapa savanna*.
 Horned Grebe (winter plumage), *Podiceps cornutus*.
 Great Northern Diver, *Colymbus glacialis*.
 Black-throated Diver, *Colymbus arcticus*.
 Snow Bunting (2), *Plectrophanes nivalis*.
 Black-throated Blue Warbler, *Dendroica Canadensis*.
 " " Green " " *virens*.
 Black and Yellow, " " *maculosa*.
 Green Black Cap Fly Catcher (male, winter plumage), *Muscicapa
pusilla*.
 Mealy Red Poll (summer plumage) *Ægiothus exilipes*.
 Little Minaret, *Pericocotus peregrinus*.
 Wild Pigeon, *Ectopistes migratoria*.

MAMMALS.

Canadian Lynx, *Lynx Canadensis*. St. Jerome.

Raccoon (old female), *Procyon Lotor*.

" (young), "

Mink, *Putorius vison*.

Weasel (2), *Putiorus vulgaris*.

Prairie Dog, *Spermophilus ludovicianus*.

Skins presented on a former occasion by the Smithsonian Institute and now mounted :

California Grey Squirrel, *Sciurus fessor*.

Thirteen Striped Squirrel (2), *Spermophilus tridecemlineatus*.

Mice (7)—various species.

Skins re-mounted :

Red-shafted Woodpeckers (2), *Picus querulus*?

Swift Parakeet, *Melopittacus undulatus*. Australia.

Hardwicke Shrike, *Collyrio*.

Yellow Bird (female), *Chrysomitris tristis*.

3rd. Report of Library Committee.—List of books, pamphlets and periodicals received into the library during the year ending May 1st, 1881 :

American Journal of Science. Vol. 19, Nos. 110, 113; Vol. 20, Nos. 115, 116, 117, 118, 119, 122, 123.

Boston Society of Natural History. Vol. 20, Part 3.

American Philosophical Society. Vol. 18, No. 105.

Canadian Antiquarian and Numismatic Journal. Vol. 8, Nos. 3, 4; Vol. 9, No. 3.

Canada Medical and Surgical Journal, for the year.

Canadian Entomologist, "

Le Naturaliste Canadien, "

Statutes of Canada. Vols. 1 & 2. 1880.

Geological Record for 1877, by Wm. Whitaker. London, 1880.

United States Fish Commission Report; from Smithsonian Institute.

Scientific Proceedings of the Royal Dublin Society, from Nov. 1877 to July, 1880.

Scientific Transactions of the Royal Dublin Society, from Nov. 1877 to June, 1880.

Academy of Natural Sciences of Philadelphia. Parts 1st and 2d. Jan. 1880 to Sept. 1880.

Proceedings of the Rhode Island Historical Society, 1879–1880 and 1880–1881.

Transactions of the Connecticut Academy of Arts and Sciences. Vol. 1, Part 2, 1867 to 1871.

Annals of the Lyceum of Natural History. Vol. 11, No. 13.

- Annals of New York Academy of Science, late Lyceum of Nat. His.
Vol. 1, Nos. 11 to 13.
- Contributions to Archæology of Missouri; from St. Louis Academy
of Science. Part 1. Pottery. 1880.
- Proceedings of the American Philosophical Society, 100th Anniversary,
at Philadelphia. March, 1880.
- Geological and Natural History Survey of Minnesota, 8th An. Re-
port, 1879.
- The American Antiquarian.
- The American Naturalist. Vol. 14, Nos. 8 to 12; Vol. 15, Nos. 3 to 5.
- Annals of the Museo Nacionalde. Mexico, 1880.
- Journal of the Linnean Society of London. Vol. 14, No. 86; Vol.
15, Nos. 81 to 83; Vol. 17, Nos. 103 to 107.
- Proceedings of the Royal Society of London. Vol. 29, No. 197 to
205. June 1879 to June 1880.
- Transactions of the Edinburgh Geological Society. Vol. 3, Part 2.
1879.
- The Glasgow University Calendar, 1880-1881.
- Science Gossip; for the year.
- Quarterly Journal of Microscopical Science, for the year.
- Journal of the Royal Microscopical Society, for the year.
- Journal and Proceedings of the Royal Society of New South Wales.
Vol. 12. 1878.
- Transactions of the Philosophical Society of Adelaide, South Aus-
tralia. Vol. 1, 1878; Vol. 2, 1879; Vol. 3, 1880.
- Geological Survey of Canada. Report of Progress. 1878-1879.
- Annual Report of the Entomological Society of Ontario for 1880.
- Bulletin of the Essex Institute. Vol. 12, No. 769.
- Ninth Annual Report of the Curators of the Wesleyan University,
Middleton, Conn., U. S., 1880.
- Nature. London. A Weekly Journal; for the year.
- Archives Neerlandaises des Sciences Exactes et Naturelles—Société
Hollandaise des Sciences, Haarlem.
- Archives Musée Teyler.
- Nederlandsch Meteorologisch Inaarbackvoor, 1879.
- Sitzungs-Berichte der Naturwissenschaftlichen Gessellschaft Isis
in Dresden, 1879 and 1880.
- Zeitschrift der Deutschen geologischen Gesellschaft—Berlin 1879.
2 Vol. One No. April to June 1880.
- Leopoldina. Dresden. Jany. 1878, Jany. 1879.
- Nova Acta Academæ Cæsaræ Leopoldina-Carolinæ, Germanical
Naturæ curiosorum. Dresden and Halle, 1878.
- Brachiopodes Etudes Locales. Extraits du Silurien du cente de la
Bohemé. Vol. 5. Par Joachim Barrande. Paris.
- Memoires de L'Academie des Sciences, Arts et Belle-Lettres des
Dijon. 1878-1879.
- Berichte uber die Verhandlungen der Koniglick sachsichen Ges-
ellschaft der Wissenschaften Zur Liepzig. 1879.

- Abhandlungen der Mathematisch-physischen classe der Königl. clas
12, Nos. 2 to 4. Leipzig, 1879-1880. Also, No. 2, 1879.
- Annals of the Museo Nacionalde. Mexico. Part 2. 1880.
- Bulletin de la Societé Imperiale des Naturalistes de Moscow. Nos.
1, 2, 3, 4. 1879.
- Acta Horti Petropolitani. Tomus VI, Fasciculu 2. St. Petersburg.
- Bulletin et Memoires de Université Imperiale de Kazun (en Russe)
1879. No. 1 to 6.
- Transactions of the Edinburgh Geological Society. Vol. 3, Part 3.
1880.
- Proceedings and transactions of the Nova Scotian Institute of Nat-
ral Science. Vol. 5, Part 2. 1879-1880.
- Report of the Wisconsin Naturalist Society, German. 1880-1881.
- Annual Report of the Department of Mines, New South Wales. 1880.
- Do. do. do for 1880. With maps.
- Transactions of the American Philosophical Society. Vol. 15, New
Series, Part 3.
- Proceedings of the Royal Geographical Society. London. Vol. 3.
No. 4.

In concluding my report allow me respectfully to suggest to the Council the following necessary and desirable repairs, improvements and additions in the Museum and building, besides those rendered necessary by the construction of the building on the northern side :

1st. The drains will require to be lowered, to enable them to drain the water from the under part of the furnaces.

2nd. In the heating department a new furnace or furnaces will be required (the old ones are worn out), which, in addition to the present heating arrangements, shall convey a shaft for hot air to the floor of the Museum.

3rd. The excessively crowded condition of the Hall on the occasions of the Somerville lectures revealed the necessity of providing for the more rapid influx of fresh air and egress of heated air. Increased accommodation can also be partially provided by arranging the folding doors on the north-east corner of the Hall so that they can be thrown open if desired.

4th. The addition to our stock of birds and mammals during the past year and the likelihood of equal addition during the coming year necessitates the acquirement of more wall cases in the Museum.

The Secretary then read the

REPORT OF EDITORS OF THE "CANADIAN NATURALIST."

The Editors of the "*Naturalist*" would report that this Journal has been issued as usual during the past year, four numbers having appeared since last annual meeting. They regret to state that but scanty material has during the past year been placed at their disposal by members of the Society. They would again urge upon members the necessity of doing all in their power to contribute and procure articles suitable for the Society's publication.

It was agreed on motion of Dr. DeSola that the reports now read be received and adopted and printed in the *Naturalist* and that a Membership Committee be appointed to enlarge the subscription roll and increase the interest in the Society.

Dr. A. R. C. Selwyn was proposed as an honorary life member ; Dr. Ross was proposed as on ordinary member, and Dr. Robert Bell, Dr. G. M. Dawson, Messrs. Foord, Ells, Richardson and Whiteaves, as corresponding members.

The election of officers was then proceeded with, resulting as follows :

President—Principal J. W. Dawson, LL.D., F.R.S.

Vice-Presidents—The Rev. Dr. DeSola, Mr. J. H. Joseph, Prof. P. J. Darey, Dr. T. Sterry Hunt, Major H. Latour, Dr. A. R. C. Selwyn, Dr. Hingston, Prof. B. J. Harrington and Mr. D. A. P. Watt.

Recording Secretary—Prof. F. W. Hicks, M.A.

Corresponding Secretary—Dr. J. Baker Edwards.

Treasurer—Mr. G. L. Marler.

Cabinet-Keeper and Librarian—Mr. Wm. Muir.

Council—Messrs. Thomas Craig, J. T. Donald, J. Bemrose, H. M. Sanborn, Dr. Osler, the Rev. Mr. Empson, M. H. Brisette, John S. Brown and S. Bagg.

Library Committee—Messrs W. Muir, J. Bemrose, J. S. Brown and J. T. Donald.

Editors of Canadian Naturalist—Professor B. J. Harrington and Mr. J. T. Donald.

Mr. Wm. Muir gave notice of motion to alter the by-law concerning annual membership fee.

The meeting then adjourned until June 16th.

The adjourned annual meeting was held on June 16th. Principal Dawson in the chair.

The minutes of the meeting of May 18th having been read and sustained, it was moved by Mr. J. H. Joseph, seconded by Prof. F. W. Hicks, and resolved : that in accordance with notice given at the meeting on the 18th ult., "the annual subscription to the Society be reduced to four dollars including the subscription to the *Naturalist* and to three dollars without the *Naturalist*."

The chairman of Council and the Recording Secretary were requested to issue a circular announcing the change in the subscription and urging members to endeavor to increase the membership list."

Messrs. Geo. Craig and P. Keutzing were proposed as ordinary members, after which the meeting adjourned.

LIST OF
Life, Honorary, and Corresponding Members
OF THE
NATURAL HISTORY SOCIETY OF MONTREAL.

LIFE MEMBERS.

CHAMPION BROWN, Esq.	WILLIAM LUNN, Esq.
HENRY CHAPMAN, Esq.	HENRY LYMAN, Esq.
J. F. CLAXTON, Esq.	THOMAS MACFARLANE, Esq.
T. J. CLAXTON, Esq.	FERD. McCULLOCH, Esq.
A. H. DAVID, Esq., M.D.	ALEX. MCGIBBON, Esq.
J. W. DAWSON, LL.D. F.R.S.	JAMES MITCHELL, Esq.
REV. A. DE SOLA, LL.D.	JOHN THOMAS MOLSON, Esq.
G. A. DRUMMOND, Esq.	JNO. W. MOLSON, Esq.
W. EWAN, Esq.	ROBERT MUIR, Esq.
HON. JAMES FERRIER, M.L.C.	WILLIAM MUIR, Esq.
JAMES FERRIER, JUN., Esq.	WILLIAM NIVIN, Esq.
W. H. HINGSTON, Esq., M.D.	THOMAS PATTON, Esq.
WM. HOBBS, JUN., Esq.	THOMAS RIMMER, Esq.
E. M. HOPKINS, Esq.	DUNCAN ROBERTSON, Esq.
HENRY J. IBBOTSON, Esq.	ALFRED SAVAGE, Esq.
J. H. JOSEPH, Esq.	N. S. WHITNEY, Esq.
W. F. KAY, Esq.	J. H. WINN, Esq.
L. A. H. LATOUR, Esq.	THOMAS WORKMAN, Esq., M.P.
PETER REDPATH, Esq.	

HONORARY LIFE MEMBERS.

DATE OF ELECTION.

May	29, '50—A. M. McWhinnie.	London, England.
Nov.	29, '52—General G. Lefroy, F. R. S.	Royal Arsenal, Woolwich, England.
	Aimé Bouchard, M.C.	Academie des Sciences, Paris.
	Milne Edwards, M.D.	" " " "
Feb.	28, '53—Professor Joseph Henry, Secretary of the Smithsonian Institute	Washington
March	28, '53—Dr. Rae	
Jan.	5, '54—O'Bryan Bellingham, M. D.	Dublin.
May	19, '56—C. Smallwood, M.D., LL.D., D.C.L.	Montreal.
Sept.	29, '56—Professor James Hall.	Albany, N.Y.
	Professor Dunglison.	Philadelphia.
Oct.	26, '56—Professor Agassiz.	Cambridge, Mass.
May	19, '73—T. S. Hunt, LL.D. F.G.S.B.	Montreal.
May	18, '77—P. P. Carpenter LL.D. F.G.S.	"
	J. F. Whiteaves, F.G.S.	"
Oct.	25, '80—Henry Montgomery, Esq.	Toronto.
	Rev. Chas. Rogers, LL.D.	London, Eng.
May	18, '81—A. R. C. Selwyn, LL.D.	Ottawa.

CORRESPONDING MEMBERS.

DATE OF ELECTION.

Aug.	26, '37	—Dr. Sabourin	United States.
Sept.	29, '44	—Major Kendall	
June	26, '46	—Dr. W. Newcomb.....	Troy, N. Y.
June	25, '47	—J. W. Leaycraft.....	Quebec.
Nov.	20, '47	—Henry Holmes Croft, Professor of Chemistry, University College.....	Toronto.
April	24, '48	—Major Lachlan	Cincinnati.
June	25, '49	—Dr. John Hillier Blount.....	Birmingham, England.
July	30, '49	—Jean Charles Taché.....	Quebec.
		Charles Payn, M.D.....	United States.
May	20, '50	—T. McDonald	Jamaica.
Jan.	27, '51	—Cecil Percival Stone.....	
April	25, '52	—Samuel Kneeland, M.D	Boston, Mass.
Aug.	30, '52	—Dr. Robert M. Huston.....	Philadelphia, Penn.
		Wm. Rogerson	Royal Observatory, Greenwich.
		J. Adolphus Thurburg	Louisiana.
Sept.	8, '52	—M. C. Brodie	Beauharnois.
		E. A. H. Allen	Troy, N. Y.
Oct.	25, '52	—Wm. Goodenough Wheeler, M.D....	Chelsea, Mass.
		Rev. William Scott.....	Sherbrooke, C. E.
Nov.	29, '52	—B. P. Johnston, Sec'y. Agricultural Society	New York.
		Samuel Walker	Roxbury, Mass.
		Sir John P. Boileau, Bart., F.R.S....	London.
		John L. LeConte, M.D	Philadelphia.
		J. Eliot Cabot, Cor. Sec. of the Boston Society of Natural History	Boston, Mass.
		John Gunlach, M.D	Cardenas, Cuba.
		Prof. W. Buckland.....	Toronto.
Feb.	28, '53	—Dr. Charles Huguet Latour....	St. Rémi.
		Dr. J. W. Salisbury	Albany.
		George Weber Breton	Paris.
		George Gephson Rumley	Dublin.
		Archibald Cameron.....	Pointe du Chêne.
March	28, '53	—Hon. Jos. Cauchon, M.P.P	Quebec.
		Benjamin Franklin Niles.....	Washington, D. C.
		Francis Markoe, jr.....	Washington, D. C.
		Samuel Dutton.....	Guernsey.
		H. Thieleke	Quebec.
		Chas. Laberge, Esq.....	St. Johns, P. Q.
		Rev. F. Pilote, College of Ste. Anne de la Pocatière	
		Dr. Theop. Huguet Latour.....	Boucherville.
April	27, '53	—Vertue Edwards.....	London, England.
		Thomas Wakley, jr.....	London.
		William Bell	London.
		Philippe Claiborne Gooch, M.D	Richmond, Va.
		Col. Campbell, C.B	St. Hilaire.
		Eben. Wight, M.D.....	Boston, Mass.
		Alexander Murray	Woodstock, C. W.
July	26, '53	—George G. Francis.....	Swansea, England.
		Geo. Prev. de Boucherville.....	St. Hyacinthe.
		Msgr. J. Langevin.....	Rimouski.
		Albert Baker, M.D.....	Stancross, Devon, England.
		John Gilson	Rome, Italy.

Nov.	28, '53	Cassimir Dessaulles.....	St. Hyacinthe.
		Hamilton D. Jesup, M.D.....	Prescott.
Nov.	29, '53	M. Tureot, M.D.....	St. Hyacinthe.
		Rev. M. Lavallée.....	St. Vincent de Paul.
April	24, '54	Rev. Michael Ashton.....	Adelaide, Australia.
June	30, '54	Rev. M. A. Trudeau.....	Buffalo, N. Y.
		Edward Crisp, M.D.....	London.
		Edward L. Ormerod, M.B.....	Brighton.
		James Spence.....	Pointe Clare.
Oct.	30, '54	Rev. Louis Ed. Bois.....	Maskinongé.
		Dr. Amédée Wellbrain.....	Tournay, Belgium.
Jan.	29, '55	Sir James Ed. Alexander.....	
June	25, '55	General Rowan.....	
		Dr. Litehfield.....	Kingston.
Oct.	29, '55	William Couper.....	Montreal.
March	31, '56	Sir G. E. Carter, Bart. M. P.....	Montreal.
		A. Brunel.....	Toronto.
		Rev. W. Brethour, M. A.....	Ormstown.
April	28, '55	Hon. Judge Sicotte.....	St. Hyacinthe.
May	19, '56	Ast. Com. Gen. Ibbotson.....	
Jan.	28, '56	P. L. McDougall, Advocate.....	Toronto.
		J. C. Lee, M.D.....	London, C. W.
		Prof. P. J. Heyfelder.....	Finland.
Dec.	29, '56	H. P. Gosselin.....	Clarendon.
		Alex. Copeland.....	Hinchinbrooke.
Feb.	25, '57	Prof. O. P. Hubbard, M.D., Dartmouth College.....	Hanover, N. H.
		Rev. A. J. Tellier, President St. John's College, N. Y.....	Fordham.
		R. L. Pell.....	New York.
April	27, '57	Jules Flavin Gingras.....	Quebec
July	27, '57	Count Motschulsky.....	St. Petersburg.
April	27, '57	Rev. M. Curtis, D.D.....	Hillsburgh, U. S.
		W. S. Sullivan.....	Columbus, Ohio.
		S. Durkee, M.D.....	Boston, Mass.
May	—, '60	Rev. Louis Wurtele.....	Actonvale.
July	—, '60	M. J. Mitcheson.....	Philadelphia.
Oct.	—, '60	Henry Poole.....	Halifax, N. S.
		Rev. D. Honeyman, F.G.S.....	Antigonish, N. S.
		Ed. Bowen, M.D.....	Brantford.
Nov.	—, '60	Barnard R. Ross.....	Ft. Simpson. Rupert's Land.
Jan.	—, '62	Thos. Macfarlane.....	Actonvale.
June	3, '62	Professor Baird.....	Smithson'n Inst., Wash'gton.
		W. Stimpson, M.D.....	" " "
		Rev. A. Forrester, D.D.....	Principal of Normal Schools.
			Truro, Nova Scotia.
Sept.	29, '62	Dr. Lowe, F.R.S.....	Brighton, England.
Nov.	24, '62	S. H. Parkes.....	Birmingham, England.
March	30, '63	Hugh E. Montgomerie.....	London, England.
		N. W. Bethune.....	Ottawa, C. W.
Oct.	26, '63	W. Saunders.....	London, C. W.
		A. S. Packard.....	Brunswick, Me.
		H. Rose.....	Granby, C. E.
		G. F. Matthew.....	St. John, N. B.
		Professor How.....	Nova Scotia.
Nov.	29, '63	John Brown.....	Hamilton, C. W.
Oct.	24, '63	Rev. R. McDonald.....	
		Professor H. Y. Hind.....	Windsor, N. S.
Nov.	28, '64	Captain Rooke, S. F.....	

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 1831-32.—Honorable Toussaint Pothier.
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 1835-36.—Alexander Skakel, A.M,
 1836-37.—Andrew F. Holmes, M.D.
 1837-38.— " " "
 1838-39.— " " "
 1839-40.—
 1840-41.—Andrew F. Holmes, M.D.
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 1844-45.—M. McCulloch, M.D.
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 1851-52.— " "
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 1855-56.—The R. R. the Lord Bishop of Montreal and Metropolitan.
 1856-57.—Principal J. W. Dawson, F.G.S.
 1857-58.— " " " "
 1858-59.— " " " "
 1859-60.—The Lord Bishop of Montreal (Fulford).
 1860-61.— " " " "
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 1863-64.—Principal J. W. Dawson, LL.D., F.R.S.
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 1867-68.—Revd. Abraham De Sola, LL.D.
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 1873-74.—Principal J. W. Dawson, LL.D., F.G.S.
 1874-75.—A. R. C. Selwyn, F.R.S., F.G.S.
 1875-76.— " " " "
 1876-77.—Principal J. W. Dawson, LL.D., F.G.S.
 1877-78.— " " " " "
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 1879-80.—A. R. C. Selwyn, F.R.S., F.G.S.
 1880-81.—Principal J. W. Dawson, LL.D., F.G.S.

